

FUEL SYSTEMS

(C-130E)

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1. **Objective.** As prescribed in AFI 38-201, *Determining Manpower Requirements*, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower required to accomplish the tasks described in the work center description for varying levels of workload volume.
 2. **Authority.** The AFI 21-series of Air Force (AF) and/or Air National Guard (ANG) directives contain US Air Force and Command policy and procedural guidance for the Fuel Systems work center. This manpower standard was developed using the functional review process under procedures outlined in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.
 3. **Applicability.** This standard applies to all Air National Guard C-130E airlift units except the 109th and 189th Airlift Groups and the 193rd Special Operations Group. This standard only applies to peacetime operations.
 4. **Standard Data:**
 - a. Classification. Type II.
 - b. Approval Date. 9 July 1992.
 - c. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
 - d. Standard Man-hour Equation. $Y = 24.58 + .9027X$.
 - e. Workload Factor:
 - (1). Title. A C-130E Programmed Flying Hour.
 - (2). Definition. The average monthly programmed flying hours.
 - (3). Source. USAF Program Document, Volume II, maintained by NGB/FM.
 5. **Application Instructions:**
 - a. The valid man-hour range for this ANGMS is 207.60 through 370.71.
 - b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
 - c. Refer to the appropriate column in the standard manpower table at attachment 2 to determine the skill distribution.
 - d. Should the extrapolation limits be exceeded, see AFI 38-201, *Determining Manpower Requirements*, for guidance.
 6. **Statement of Conditions:**
 - a. There were no general conditions (environmental, equipment, or facility) which had an impact on the development or application of this manpower standard.
 - b. There were no approved enhancements that impacted the man-hour equation for this work center.

**DONALD W. SHEPPERD
Major General, USAF
Director, Air National Guard**

OFFICIAL

**DEBORAH GILMORE
Chief
Administrative Services**

**2 Attachments
1. Work Center Description
2. Standard Manpower Table**

WORK CENTER DESCRIPTION**Fuel Systems
(C-130E)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1. MAINTAINS AIRCRAFT FUEL SYSTEM AND COMPONENT. Inspects, troubleshoots, and repairs fuel system on-equipment.

1.1.1. MAINTAINS TANK SYSTEM.

1.1.2. MAINTAINS FUEL DISTRIBUTION SYSTEM.

1.1.3. MAINTAINS SINGLE-POINT AERO REFUELING SYSTEM.

1.1.4. MAINTAINS VENT SYSTEM.

1.1.5. MAINTAINS FUEL JETTISON SYSTEM.

1.1.6. MAINTAINS FUEL INSTRUMENT SYSTEM.

1.1.7. MAINTAINS FUEL BAFFLE SYSTEM.

1.2. PERFORMS INSPECTION. Performs special, phase, and hourly aircraft inspection.

1.2.1. PERFORMS SPECIAL INSPECTION.

1.2.2. PERFORMS PHASE/HOURLY INSPECTION.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. MAINTAINS AIRCRAFT FUEL SYSTEM AND COMPONENT. Inspects, troubleshoots, and repairs off-equipment.

2.1.1. MAINTAINS TANK SYSTEM.

2.1.2. MAINTAINS FUEL DISTRIBUTION SYSTEM.

2.1.3. MAINTAINS SINGLE POINT/AERO REFUELING SYSTEM.

2.1.4. MAINTAINS VENT SYSTEM.

3. PERIODIC MAINTENANCE OF FUEL EQUIPMENT IN BASE SUPPLY. Performs periodic functional check or calibration of equipment stored in Base Supply to maintain shelf life and ensure serviceability before use.

4. NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE) MAINTENANCE. Maintains AGE.

5. SHOP SUPPORT GENERAL CODE. Performs shop support general code.

6. ASSISTANCE. Assists other Maintenance function in the performance of direct labor maintenance requirement to ensure effective utilization of maintenance personnel.

7. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs maintenance required on/off the aircraft in accordance with applicable TCTO and completes documentation.

8. UNIT TRAINING ASSEMBLY (UTA), MOBILITY REQUIREMENT, AND BATTLE DAMAGE PROGRAM. Performs planning and scheduling tasks associated with preparation for UTA weekend, mobility requirement, and the Battle Damage Program.

9. GROUND HANDLING, SERVICING, AND RELATED TASK. Performs ground handling, servicing, and related tasks.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE										
WORK CENTER/FAC				APPLICABILITY MAN-HOUR RANGE						
Fuel Systems/23320 E (C-130E)				207.60 - 370.71						
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
Aircraft	452X0	Civ	1	1						
Aircraft Fuel Systems	454X3	Civ	1	2						
TOTAL			2	3						
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
TOTAL										